

## A B S T R A C T

The invention describes a method and a system for fast and economic synchronization of multiframe structures, such as PDH multiframe binary signals, by detecting a periodic binary signature in a binary signal using one final state machine (FSM) comprising a logical scheme interconnected with a memory block having a plurality of independent memory cells with serial numbers for cyclically connecting thereof to the logical scheme; the signature is detected by applying the signal to the FSM while synchronously switching the cells to the FSM. The arrangement is such that when the predetermined periodic binary signature occurs in the signal, one of the cells will reach its predetermined terminal state.